GOVERNMENT OF INDIA
SPACE
LOK SABHA

UNSTARRED QUESTION NO:4589
ANSWERED ON:29.03.2017
Lithium Battery Technique
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Will the Minister of SPACE be pleased to state:

(a) whether ISRO has developed a prototype of used lithium ion battery technique in automotive segment;
(b) if so, the details thereof along with the outcome of experiments done in this regard; and
(c) the steps taken by the Government to make this technology available to automobile manufacturers for commercial production of vehicles based on this technology?

Answer

THE MINISTER OF STATE IN THE MINISTRY OF PERSONNEL, PG & PENSIONS AND IN THE PRIME MINISTER'S OFFICE (DR. JITENDRA SINGH):

(a) Yes Madam. ISRO has developed lithium ion battery for satellite and launch vehicle applications. Four types of batteries have been developed − 1.5Ah, 5Ah, 50Ah and 100Ah. Out of these, 1.5Ah & 50Ah have been used for space applications and 5Ah & 100Ah batteries are qualified and is ready for induction in space applications.

(b) ISRO has supplied 50 Ah lithium-ion cells to Automotive Research Association of India (ARAI). Lithium-ion battery developed by ISRO was successfully demonstrated in a prototype two-wheeler at the Symposium on International Automotive technologies (SIAT 2017) on 19th January, 2017. The prototype uses a 48V, 50Ah lithium-ion battery, which can attain speeds of 40-50 kmph and can run up to 98 km once charged for 2 hrs.

(c) Technology is ready for transfer to Indian industries for undertaking the production of Li-ion batteries. BHEL has expressed interest in the transfer of technology.

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